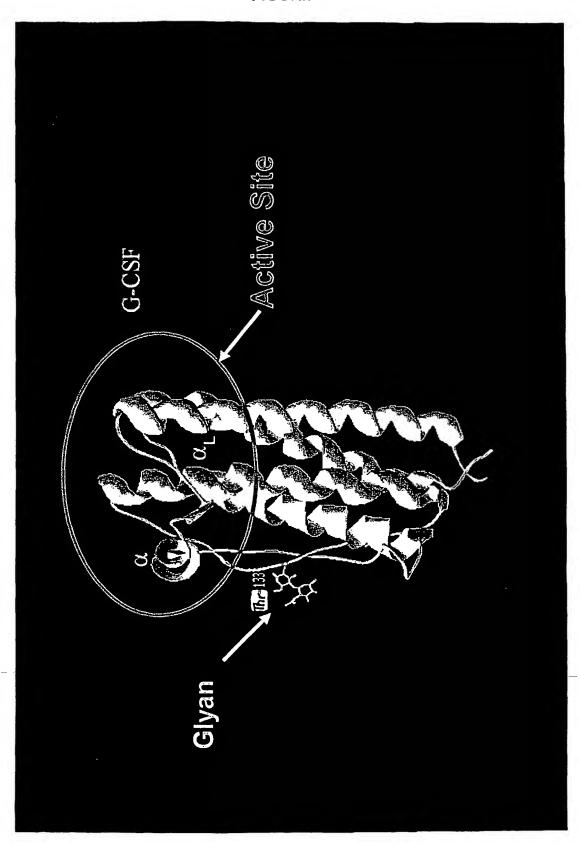
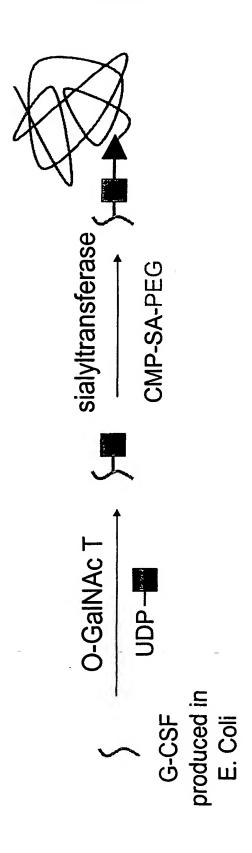
FIGURE 1



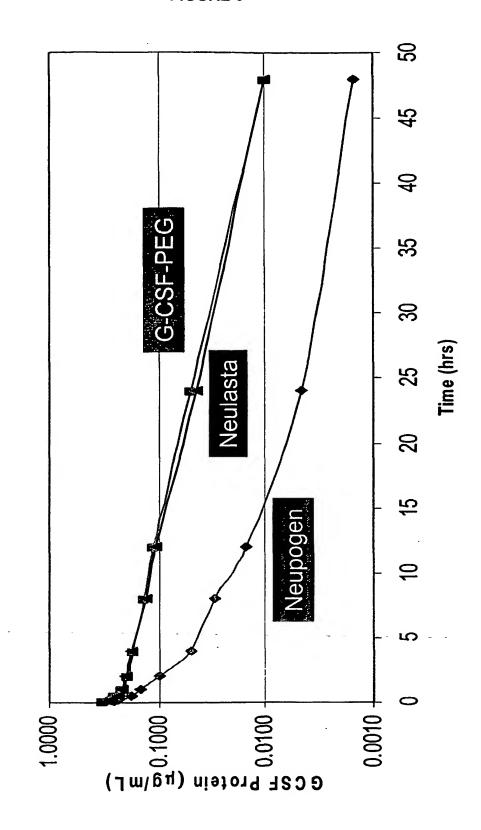
BEST AVAILABLE COPY

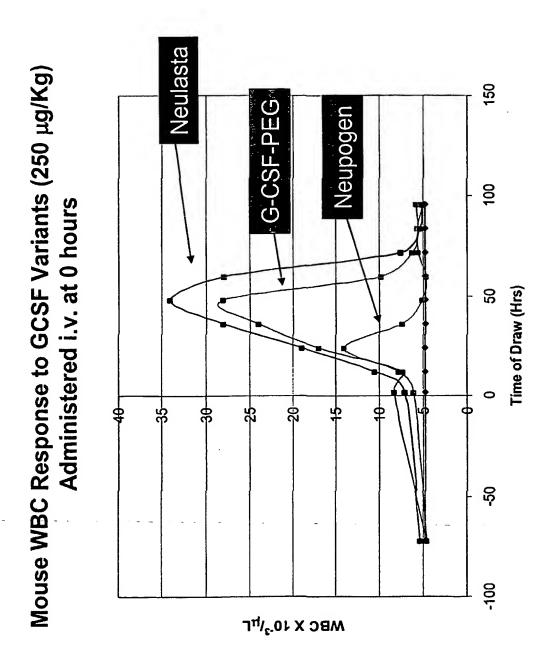
FIGURE 2



IV Bolus injection of [125]]-labeled proteins in rats

FIGURE 3





CMP-sialic acid-PEG

175 amino acid variant

MTPLGPASSLPQSFLLKCLEQVRKIQGDGAALQEKLCA TYKLCHPEELVLLGHSLGIPWAPLSSCPSQALQLAGCLS QLHSGLFLYQGLLQALEGISPELGPTLDTLQLDVADFAT TIWQQMEELGMAPALQPTQGAMPAFASAFQRRAGGVL VASHLQSFLEVSYRVLRHLAQP (SEQ ID NO: 1).

174 amino acid variant

TPLGPASSLPQSFLLKCLEQVRKIQGDGAALQEKLCATY KLCHPEELVLLGHSLGIPWAPLSSCPSQALQLAGCLSQL HSGLFLYQGLLQALEGISPELGPTLDTLQLDVADFATTI WQQMEELGMAPALQPTQGAMPAFASAFQRRAGGVLV ASHLQSFLEVSYRVLRHLAQP (SEQ ID NO: 2).

FIGURE 7

Testing growth conditions - washing IBs

	37°C,	ImM (final) IPT	IB yields (~0.7-1g/L)	
	Media	Buffered pH	Time	wet IB pellet (mg)
1.	LB	n/a	5hr	120
2.	ТВ	7.4 (K-PO ₄)	5hr	230
3.	ТВ	6 (MES)	5hr	170
4.	LB	n/a	o/n	190
5.	ТВ	7.4 (K-PO ₄)	o/n	250

Cell samples, loaded equally by ug (better expression of overnights more apparent)

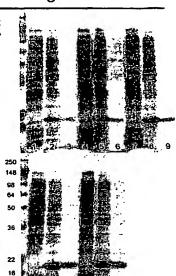
10. #4 lysate, supe

11. #4 lysate, pellet 12. #4 final IB

13. #5 lysate, supe 14. #5 lysate, pellet

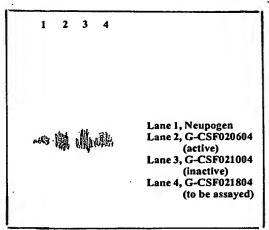
15. #5 final IB

- 1. #1 lysate, supe
- 2. #1 lysate, pellet
- 3. #1 final IB 4. #2 lysate, supe
- 5. #2 lysate, pellet
- 6. #2 final IB 7. #3 lysate, supe
- 8. #3 lysate, pellet 9. #3 final IB



Purified IB's are shown in lanes 3, 6, 9, 12 and 15. Note IB lanes loaded at approximately ½ the amount of the preceding lane (based on predicted pellet weight).

Western Blot Analysis of Refolded G-CSF Native Polyacrylamide Gel Electrophoresis



G-CSF020604 and G-CSF021004 came from the same batch of refolding reaction. The only difference was that G-CSF021004 was saved from the flowthough of G-CSF020604 by adjusting pH and reloading onto SP Sepharose. G-CSF021804 was a separate refolding batch.

After SP-sepharose you see only one band by Coomassie stain or Western.

FIGURE 11A

Protein	Organism	EC#	GenBank / GenPept	SwissProt PDB / 3D
A11608280	Arabidopsis de di	nid.	AG014438AA7718241.1 BT004583AA042828.1	084W00 W
At1g08660/F22O13.14	Arabidopsis thaliana	n.d.	NC_003070 NP_0172305 AC003981 AAF99778.1 AY064135 AAL36042.1	Q8VZJ0 Q9FRR9
	uranaria		AY124807 AAM70516.1 NC_003070 NP_172342.	
At3g488207[21J18_90	. A fabidopsis		NM_180609 NP_850940. ``AY080589'AAU85966'1	1 7208RY00
	thallana		AY 133816 AAM917504 AL 132963 CAB87910 1 NM_114741 NB 1904516	
α-2,3-sialyltransferase (ST3GAL-IV)	Bos taurus	n.d.	AJ584673 CAE48298.1	Mary and the Control of the Control
α-2,3-sialyltransferase (St3Gal-V)	Bos taurus	n.d.	AJ585768 CAE51392.1	
α-2,6-sialyltransferase (Siat7b) α-2,8-sialyltransferase	Bos taurus	n.d. . a:// oo:ớ::-	AJ620651 CAF05850.1	
CSIAT8A) α-2,8-sialyltransferase	Bos taurus		AJ699411 CAG27883.1	
(Siat8D) α-2.8-sialÿltransferase	₽Bostaurus! \		AJ704563 CAG28696.1	
ST8Siα-III (Siat8©). CMP α-2,6-	Bos taurus	2.4.99.1	Y15111 CAA75385.1	O18974
sialyltransferase (ST6Gal l) sialyltransféfäse 8	∜Bos taurus :		NM_177517 NP_803483. · AF450088 3AAL47018.1	
(fragment) sialyltransferase ST3Gal-	Bos taurus	n.d.	AJ748841 CAG44450.1	A COUNTY OF THE PROPERTY OF TH
II (Siat4B) sialyltransferase ST3Gal-	Bos taurus	n.d.	AJ748842 CAG44451.1	
III (Siat6) sialyltransferase ST3Gal- VI (Siat10)	Bos taurus	n.d.	AJ748843 CAG44452.1	.are () การ การเสียงสัตยมีสัตม์สัตม์
ST3Galle St6GalNAc-VI	Bos taurus	n.d.	A <u>U305086</u> CAC24698:1 AJ620949 CAF06586.1	
	Branchiostoma floridae		AE391289 AAM18873 1	
polysialyltransferase (PST) (fragment) ST8Sia IV	Cercopithecus aethiops	2.4.99	AF210729 AAF17105.1	Q9TT09
polysialyltransferase. (STX) (fragment) ST8Sia	Cercopithecus aethiops	2:4.99	AF210318 AAF17104.1	
α-2,3-sialyltransferase ST3Gal I (Siat4)	Ciona intestinalis	n.d.	AJ626815 CAF25173.1	
α-2,3-sialylfransferase ST3Galil (Siat4)	Ciona savignyi	n.d. 🕏	AJ626814 CAF25172.1	
α-2,8- polysialyltransferase	Cricetulus griseus	2.4.99	-AAE28634 Z46801 CAA86822.1	Q64690
ST8Sia IV Gal β-1;3/4-GlcNAcα- 2:3-sialylifansterase	Cricelülüs griseus	n.d.	AY266675 AAP22942.1	ANDROWED BY WATER
Si3Gal. Gal β -1,3/4-GlcNAc α -	Cricetulus griseus	n.d.	AY266675 AAP22942.1 AY266676 AAP22943.1	Q80WK9
2,3-sialyltransferase St3Gal II (fragment)	oncolarao gridosas		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4000000
α-2,3-sialyltransferase S13Gat (Siat4)	Danio rerio	n.d.	AJ783740 CAH04017.1	
α-2,3-sialyltransferase ST3Gal II (Siat5)	Danio rerio	n.d.	AJ783741 CAH04018.1	。" 你你你你你 在这个人的
α:2,3-sialyltransferase ST3Gai III (Siat6) α-2,3-sialyltransferase	Danio rerio Danio rerio	n.d.	AJ626821 CAF25179.1 AJ744809 CAG32845.1	
ST3Gal IV (Siat4c)		ii.u.	AU 1 77003 ON 002070. I	

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F	G	U	R	E	1	1	В

Protein	Organism	EC#	GenBank / GenPept	SwissProt PDB
α-2/3-sialyltransferase	Danio reno	n.d.	AJ783742 CAH040194	12.00
ST3GallVar (Siat5-related) α-2,6-sialyltransferase	Danio rerio	n.d.	AJ744801 CAG32837.	
ST6Gal I (Siat1)		ا تامنا	A ICONTRO CA COFFEE	esturgeturante esta en 1
α-2,6-sialýltřánsferase ST6GalNActili(Siat7B)	Danio rerio	n.d.	AJ634459 CAG25680	
α-2,6-sialyltransferase	Danio rerio	n.d.	AJ646874 CAG26703.	
ST6GalNAc V (Siat7E) (fragment)				
α-216-sialyltransferase (ST6GaINAC VI (Siat7F)	Danio reno	n.d.	AJ646883 CAG26712	
(fragment)		را در اور اور اور اور اور اور اور اور اور او		
α-2,8-sialyltransferase ST8Sia I (Siat 8A)	Danio rerio	n.d.	AJ715535 CAG29374.	1
(fragment)	Street Bartine Metal 40 s 1	1 14 125 a 1		kar situsti — i teorisi — szv
α-2,8-sialyltransferase ST8Sia III (Siat 8C)	Danio reno	n.d.	AJ715543 CAG29382.	
(fragment)	Ocasio maio		A 1745545 CA C20294	
α-2,8-sialyltransferase ST8Sia IV (Siat 8D)	Danio rerio	n.d.	AJ715545 CAG29384.	1
(fragment)	. Danio rerio	n.d.	AJ715546 CAG29385	to askrookred.
α-2,8-sialyltrānsferase ST8Sia V (Siat 8E)	Dallioseno	10.00 10.00	N 1	
(fragment) (\$\frac{1}{2} \tag{2} \tag	Danio rerio	n.d.	AJ715551 CAG29390.	a (3 . 1526)
ST8Sia VI (Siat 8F)	24		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•
(fragment) β-galactosamide α-2,6-	Danio rerio	∵ San.d.	# AJ627627 CAF29495:	
sialyltransferase II 👙				
(ST6Gal II) N-glycan α-2,8-	Danio rerio	n.d.	BC050483 AAH50483.	Q7ZU51
sialyltransferase			AY055462 AAL17875.	Q8QH83
ST3Gal III-related (siat6r)	S Danio rerio	≨n.d	NM_153662 NP_705948 BC053179 AAH53179	Q7T3B9
			Å AJ626820 CAF25178 . NM <u>-</u> 200355 NP <u>-</u> 956649	
St3Gal-V	Danio rerio	n.d.	AJ619960 CAF04061.	
st6GalNAc-VI	Danio rerio	n.d.	BC060932 AAH60932. AJ620947 CAF06584	
α-2,6-sialyltransferase	Drosophila	2.4.99.1	AE003465 AAF47256.1	Q9GU23
(CG4871) ST6Gal I	melanogaster		AF218237 AAG13185. AF397532 AAK92126.	
			AE003465 AAM70791. NM_079129 NP_523853	
			NM_166684 NP_726474	.1
	Gallus gallus		# AU585767 CAE51391 AU627204 CAE25503	
α -2,3-sialyltransferase	Gallus gallus	2.4.99.4	X80503 CAA56666.	1 Q11200
ST3Gal I α-2,3-sialyltransferase	Gallus gallus	2 4.99	NM_205217 NP_990548	1 ~073724 · *
ST3Gal IV (fragment)	Gallus gallus Gallus gallus	n.d.	AJ585761 CAE51385.	
α-2,3-sialytransferase (ST3GAL-II)	_			
α-2,6-sialyltransferase (Siat7b)	Gallus gallus	n.d.	AJ620653 CAF05852.	
α -2,6-sialyltransferase	Gallus gallus	2.4.99.1	X75558 CAA53235.	1 Q92182
ST6Gal I α-2,6-sjalyltransferase	Gallus gallus	2.4.99.3	NM_205241 NP_990572 AAE680285	
ST6GälNAcI		2.4.55.3	774046 C	
			X74946 CAA52902 NM_205240 NR_990574	Market Service
α-2,6-sialyltransferase ST6GalNAc II	Gallus gallus	2.4.99	X77775 AAE68030. NM 205233 CAA54813.	
	the State of the transfer of		NP_990564	.1
α-2,6-sialyltransferase ST6GalNAc III (SIAT7C)	Gallus gallus	n.d.	AJ634455 CAG25677.	
	• •		· · - · · · · · · · · · · · · · · ·	

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	FIGURE	11C		
Protein	Organism	EC#	GenBank / GenPept SwissProt / 3D	
(fragment)	Collug gollug	Mary Mill	AJ646877 CAG26706.1	
α-2,6-sialyltransferase ST6GalNAc V (SIAT7E)	Gallus gallus	n.d.	AJ0408// CAG26/06.1	
(fragment) α-2,8-sialyltransferase	Gallus gallúš	2.4.99	U73176 AAC28888 TT P79783	::
(GD3 Synthase) SI 8Sia Lad				7
α-2,8-sialyltransferase (SIAT8B)	Gallus gallus	n.d.	AJ699419 CAG27881.1	
α-2-8-sialyltransferase	Gallus gallus	n.d.	AJ699420 CAG27882.1	
(SIAT8C), (SiaT	Gallus gallus	n.d.	AJ699424 CAG27886.1	:
(SIAT8F)	Gallus a	n de	AJ704564.CAG28697714	Z.
ST8Six-V (SIAT8C)				
β-galactosamide α-2,6-	Gallus gallus	n.d.	AJ627629 CAF29497.1	
sialyltransferase II (ST6Gal II)		. Jana Photo . J	Change for an array of the State of the Stat	
GM3 synthase (SIAT9)	Gallus gallus 🤼 Gallus gallus	2.4.99.9 2.4.99	Ay515255 AAS83519.1	
ST8Sia IV				7
α-2,3-sialyltransferase	Homo sapiens	2/4/99.4	7 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
		Selly Selly	L13972 AAC37574.1 Q9UN51	
	\$50 PM		AF155238 AAD39238 1 AF186191 AAG29876.1	٤
			BC018357 AAH18357.1 NM_003033 NP_003024.1	
			NM_173344 NP_775479.1	
α-2,3-sialyltransferase ST3Gal II	Homo sapiens	2.4.99.4	U63090 AAB40389.1 Q16842 BC036777 AAH36777.1 O00654	
01000111			X96667 CAA65447.1	
α-2,3-sialyltransferase	Homo sapiens	2.4.99.6	NM_006927 NP_008858.1	į
ST3Gal III (SiaT6)			B <u>605</u> 0380 AAH50380 1	
			AF425852/AAO13860 1 Q86UR8	
			AF425853 AAO13861 1 Q86UR9 55 AF425854 AAO13862 1 Q86US0	· .·
			#AF425855 AAO13863.1 1086US1L	
			AF425856'AAO13864.1	ŝ
			AF425858AAO13866.1 208IX4477	
			AF425859 AAO13867.1 1081X45.4 3.1 AF425860 AAO1386811 (281X462)	
		S SPC	AF425861 AAQ1386911 - Q81X47.5 AF425862AAQ1387011 - 4(081X48	1
			AF425863 AAQ1387414 Q8IX492	2
			AF425864/AAO138721 (281X50**) AF425865/AAO1387317 (281X51**)	
	· · · · · · · · · · · · · · · · · · ·	46.5	AF425866 AAO13874.1 Q8IX52 AF425867 AAO13875.1 (Q8IX53)	
			AY167992 AAO38806 1 Q8IX54 4	2:
1 m			AY167993 AAO3880711	共
			AY167995 AAO38809\1, \15Q8IX57	
		***	AY167996 AAO3881031. Q8IX58	
			AY167998 AAO38812.1	
			NM_006279 NP_006270 NM_174964 NP_777624 1	4.7
L. P.		Stranger of	NM 174965 NP 777625 1 NM 174966 NP 777626.1	j.
			NM_174967 NP_777627 1	
A STATE OF THE STA	14 - 15 - 15 - 15 - 15 - 15 - 15 - 15 -		NM_174969 NP_777629 1 NM_174970 NP_777630.1	•
			NM_174970 NP_777632.1	

FIGURE 11D

	FIGURE	110		
Protein	Organism	EC#	GenBank / GenPept	SwissProt PDB
α-2,3-sialyltransferase	Homo sapiens	2.4.99	L23767 AAA16460.1	Q11206
ST3Gal IV			AF035249 AAC14162.1	O60497
			BC010645 AAH10645.1	Q96QQ9
			AY040826 AAK93790.1 AF516602 AAM66431.1	Q8N6A6 Q8N6A7
			AF516603 AAM66432.1	
			AF516604 AAM66433.1	
			AF525084 AAM81378.1	
			X74570 CAA52662.1	
			CR456858 CAG33139.1	
α 2 3-sialyltransferase.	Homo sapiens	1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	NM_006278 NP_006269. . AF119391 AAD3913111	1 109 Y 27 4
ST3Gal VI			BC0233/12 AAH233/1241	
			AB022918 BAA776091	
			AX877828 GAE89895 1	
			AX886023 CAF00161 1	
and a contract of the second	data dana		NM 006100 NP 006091	
α-2,6-sialyltransferase (ST6Gal II; KIAA1877)	Homo sapiens	n.d.	BC008680 AAH08680.1 AB058780 BAB47506.1	Q86Y44 Q8IUG7
(01000111,10001011)			AB059555 BAC24793.1	Q96HE4
			AJ512141 CAD54408.1	Q96JF0
			AX795193 CAE48260.1	
			AX795193 CAE48261.1	
of 2.6 stability of States 24	. Homo sapiens	CARL LANGUAGE TO MAKE T	NM_032528 NP_115917.	
α-2,6-sialyltransferaset (ST6GALNAC.III)	, nomo sapiens	n.d.?	BC059363 AAH59363 1 AY358540 AAQ88904 1	
(OTOOALITAOJII)	The second of the second		AK091215 BAC03611.1	
			AJ507291 CAD45371.1	
			NM_152996 NP <u></u> 694541.	
α-2,6-sialyltransferase	Homo sapiens	n.d.	BC001201 AAH01201.1	Q9BVH7
(ST6GalNAc V)			AK056241 BAB71127.1	
			AL035409 CAB72344.1 AJ507292 CAD45372.1	
		- 1	NM_030965 NP_112227.	1
α-2,6-sialyltransferase	Homo sapiens	2.4.99	U14550 AAA52228 1	<i></i> 209UJ37
(SThM) ST6GalNAcill			4BC040455 AAH40455.1	MQ12971
			AJ251053 CAB61434.1	
at 2.6 planting of the same of		2.4.99.1	NM-006456 NR-006447	
α-2,6-sialyltransferase ST6Gal I	Homo sapiens	2.4.99.1	BC031476 AAH31476.1 BC040009 AAH40009.1	P15907
0100211			A17362 CAA01327.1	
			A23699 CAA01686.1	
			X17247 CAA35111.1	
			X54363 CAA38246.1	
		,	X62822 CAA44634.1 NM_003032 NP_003023.1	1
			NM 173216 NP 775323.1	
α-2,6-sialyltransferase	Homo sapiens		BC022462'AAH22462'.1	Q8TBJ6
ST6GalNAc			#AY096001:AAM22800#1	
100			AY358918 AAQ89277:1	@9NXQ7
4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	a Sur William D. Levil D.		AK0001113 BAA90953 AA72179 2	
			NM-018414 NP 060884	
α-2,8-	Homo sapiens	2.4.99	L41680 AAC41775.1	Q8N1F4
polysialyltransferase	•		BC027866 AAH27866.1	Q92187
ST8Sia IV		4	BC053657 AAH53657.1	Q92693
er 2.9 siglyltransforms	. Home contact	2.4.99.8	NM_005668 NP_005659.1	
α-2,8-sialyltransferase (GD3 synthase) ST8Sia I	Homo sapiens	2.4.99.0	L32867 AAA62366, 1	Q86X7/114 Q92185
Coo synthage, Glocia I	British British Armen		BC046158 AAH461581	
			AAQ53140.1	
		建 多数	`AY569975 AAS75783;1"	
			D26360 BAA05391.1	
			X77922 CAA54891;1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
α-2,8-sialyltransferase	Homo sapiens	2.4.99	003034 NP_003025.1 1.29556 AAA36613	Q92186
w-2,0-staryttaristerase	, romo sapiens	£. 4 .33	LEGUOU ///\JUU 13.1	

2,3-sialyltransferase

(ST3Gal III)

FIGURE 11E **Protein** Organism EC# GenBank / GenPept **SwissProt** ST8Sia II U82762 AAB51242.1 Q92470 U33551 AAC24458.1 Q92746 BC069584 AAH69584.1 NM_006011 NP_006002.1 AF004668/AAB8/642/16 AF003092/AAC15901-22 NML015879 NP_05696831 α-2,8-sialyltransferase ST8Sia III α-2,8-sialyltransferase U91641 AAC51727.1 Homo sapiens 2.4.99.-015466 ST8Sia V CR457037 CAG33318.1 NM_013305 NP_037437.1 AC023295 'ENSP00000020221 lactosylceramide α-2,3-2.4.99.9 AF105026 AAD14634.1 Homo sapiens sialyltransferase (ST3Gal AF119415 AAF66146.1 094902 BC065936 AAH65936.1 AY152815 AAO16866.1 AAP65066 AAP65066.1 AY359105 AAQ89463.1 AB018356 BAA33950.1 AX876536 CAE89320.1 AX876536 CAE89320.1 NM 003896 NP 003887.2 BC006564 AAH06564.1 Q969X2 BC007802 AAH07802.1 Q9H8A2 BC016299 AAH16299.1 Q9ULB8 AY358672 AAQ89035.1 AB035173 BAA87035.1 AK023900 BAB147415.1 AV507298 CAD45370.1 N-acetylgalactosaminide Homo sapiens 2.4.99. α-2,6-sialyltransferase (ST6GalNAc VI) GR457818CAG3359941474 IMB018443NP-03847/123 N-acetylgalactosaminide 2.4.99.-Homo sapiens AF127142 AAF00102.1 Q9H4F1 α-2,6-sialyltransferase IV BC036705 AAH36705.1 Q9NWU6 (ST6GalNAc IV) -AAP63349.1 **Q9UKU1** AB035172 BAA87034.1 Q9ULB9 AK000600 BAA91281.1 Q9Y3G3 Y17461 CAB44354.1 Q9Y3G4 AJ271734 CAC07404.1 AX061620 CAC24981.1 AX068265 CAC27250.1 AX969252 CAF14360.1 NM_014403 NP_055218.3 NM_175039 NP_778204.1 A1621583 CAF21722:1 XM_291725 XP_291725.2 ST8SIA-VI (frágment) Homo sapiens n.d. : 1 to 1 5.00 unnamed protein product Homo sapiens AK021929 BAB13940.1 n.d. AX881696 CAE91353.1 Q9QXF6 AJ245699 CAB53394.1 Gal β-1,3/4-GIcNAc α-Mesocricetus 2.4.99.6

auratus

FIGURE 11F

		FIGUR	E 11F		
Protein		Organism	EC#	GenBank / GenPept	SwissProt PDB
Gal β-1,3/4-GlcNAc α-		Mesocricetus	2,4,99.6	AJ245700 CAB53395.1	Q9QXF5
2,3-sialyltransferase (ST3Gal IV)		auratus		, , , , , , , , , , , , , , , , , , ,	Q3Q/11 0
GD3 synthase (fragment) ST8Sia I		Mesocricetus auratus	n.d.	AF141657 AAD33879 (1	7O9WUL1
polysialyltransferase (ST8Sia IV)		Mesocricetus auratus	2.4.99	AJ245701 CAB53396.1	Q9QXF4
α-2,3-sialyltransferase	St3gal1	Mus musculus .	2,4.99,4		
ST3Gal I				AK031344 BAC27356 1 AK078469 BAC37290 1	Q11202 Q9JL30
			1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1	3X73523 CAA51919	
α-2,3-sialyltransferase	St3gal2	Mus musculus	2.4.99.4	NM-009177 NP-0332038 BC015264 AAH15264.1	Q11204
ST3Gal II	Sisyaiz	Was mascalas	2.4.55.4	BC066064 AAH66064.1	Q8BPL0
				AK034554 BAC28752.1 AK034863 BAC28859.1	Q8BSA0 Q8BSE9
				AK053827 BAC35543.1	Q91WH6
				X76989 CAA54294.1 NM_009179 NP_033205.1	1
				NM_178048 NP_835149.1	
α-2,3-sialyltransferase ST3Gal III	St3gal3	Mus musculus	2.4.99	BC006710 AAH06710 1 AK005053 BAB23779.1	
3 (3 Gai III		1.30		AK013016 BAB28598.1	Q9CZ48
+ 4 · ·	٠.			X84234 CAA59013,1 NM 009176 NP 033202.2	
α-2,3-sialyltransferase	St3gal4	Mus musculus	2.4.99.4	BC011121 AAH11121.1	P97354
ST3Gal IV				BC050773 AAH50773.1 D28941 BAA06068.1	Q61325 Q91Y74
				AK008543 BAB25732.1	Q921R5
				AB061305 BAB47508.1 X95809 CAA65076.1	Q9CVE8
			21.22.4	NM_009178 NP_033204.2	
α-2,3-sialyltransferase ST3Gal VI	St3gal6	Mus musculus	2.4.99.4	AF119390 AAD39130.1 BC052338 AAH52338.1	Q80UR7 Q8BLV1
				AB063326 BAB79494.1	Q8VIB3
	5	marking the same of the	A ANGEL TO .	AK033562 BAC28360,1 AK041173 BAC30851.1	Q9WVG2
α-2.6-sialyltransferase S	Steanlanc?	Mus musculus	2.4.99	NM_018784 NP_061254 NM_009180 6677963	P70277
ST6GalNAc II	nogamacz	Was musculus	2.4.99	BC010208 AAH10208.1	Q9DC24
		•		AB027198 BAB00637.1 AK004613 BAB23410.1	Q9JJM5
•				X93999 CAA63821.1	
				X94000 CAA63822.1 NM 009180 NP 033206.2	•
α-2,6-sialyltransferase	Stegal1 -	Mus mysculus.	2.4.99.1	AAE68031:1	Q64685
ST6Gall	1.4.4			BC027833AAH27833.1 D16106BAA03680.1	Q8BM62 Q8K1LJ
				AK034768 BAG28828.1	
	1 不多一种			AK084124 BAC39120 1 NM#145933 NP4666045	
α-2,6-sialyltransferase ST6Gal II	St6gal2	Mus musculus	n.d.	AK082566 BAC38534.1 AB095093 BAC87752.1	Q8BUU4
STOGALII				AK129462 BAC98272.1	
α-2,6-sialyltransferase s	Steriologo 1	. Mūṣ musculus	2 4 00'2	NM_172829 NP_766417. 	
ST6GalNAc.I	nogamac i	A A A A A A A A A A A A A A A A A A A		NM_011371 NR_035501	Q9JJP5
α-2,6-sialyltransferase S ST6GalNAc III	St6galnac3	Mus musculus	n.d.	BC058387 AAH58387.1 AK034804 BAC28836.1	Q9WUV2 Q9JHP5
C / CCall W / C III				Y11342 CAA72181.2	<u></u>
				Y11343 CAB95031.1 NM_011372 NP_035502	
α-2,6-sialyltransferase S	St6galnac4	Mus musculus	2.4.99.7	BC056451 AAH5645111	.a√Q8C3J2
ST6GalNAc IV	• •		•	AK085730 BAC39523 1 AJ007310 CAA07446.1	
•				Y15779 CAB43507.1	O88725

FIGURE 11G

		FIGURI	= 11G	and the same of th	
Protein		Organism	EC#	GenBank / GenPept	SwissProt PDB
			A 64 14	16 5780 CAB43514.1	09JHP0\t**
		-		Y19055 CAB98946 1	09QUP9
				~ Y19057 CAB98948.1	
Surviva Marian	9 000		0.4.00.0	NM_011373 NP_035508	
α-2,8-sialyltransferase	St8sia1	Mus musculus	2.4.99.8	L38677 AAA91869.1	Q64468
(GD3 synthase) ST8Sia I				BC024821 AAH24821.1 AK046188 BAC32625.1	Q64687 Q8BL76
				AK052444 BAC34994.1	Q8BWI0
				X84235 CAA59014.1	Q8K1C1
				AJ401102 CAC20706.1	Q9EPK0
				NM_011374 NP_035504.	
α-2,8-sialyltransferase	St8sia6	Mus muscuļus	n.d.	AB059554 BAC01265 1	Q8BI43
(ST8Sia VI)		46.233		AK085105 BAG393674 NM-145838 NP-1665837	Q8K4T/1.3
α-2,8-sialyltransferase	St8sia2	Mus musculus	2.4.99	X83562 CAA58548.1	1 C35696
ST8Sia II	0103/42	mao maodaras	2.7.00.	X99646 CAA67965.1	
				X99647 CAA67965.1	
				X99648 CAA67965.1	
				X99649 CAA67965.1	
				X99650 CAA67965.1	
				X99651 CAA67965.1 NM_009181 NP_033207.	
α-2,8-sialyltransferase	St8sia4	Mus musculus	2.4.99.8	BC060112 AAH60112:1	Q64692
ST8Sia IV			1 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -	AK003690 BAB22941.1	Q8BY70
•				AK041723 BAC31044 1	
	•			AJ223956 CAA11685.1	
				X86000 CAA5999211	
•				Y09484 ÇAA70692.1 NM_009183 NP_033209.	
α-2,8-sialyltransferase	St8sia5	Mus musculus	2.4.99	BC034855 AAH34855.1	P70126
ST8Sia V	0.00.00			AK078670 BAC37354.1	
				X98014 CAA66642.1	
				X98014 CAA66643.1	
				X98014 CAA66644.1 NM_013666 NP_038694.	
				NM 153124 NP 694764.	
				NM_177416 NP_803135.	
α-2,8-sialytransferase	St8sia3 ·	Mus musculus	2.4.99		
ST8Sia III		1875 1975 Aug A.,	154.4K	AK015874 BAB30012:1	
		1904 V.		X80502 CAA56665.1 NM_009182 NP_033208	
GD1 synthase	St6galnac5	Mus musculus	n.d.	BC055737 AAH55737.1	
(ST6GalNAc V)	Otogaau	ao maodanao		AB030836 BAA85747.1	Q8CBX1
,				AB028840 BAA89292.1	Q9QYJ1
				AK034387 BAC28693.1	
				AK038434 BAC29997.1 AK042683 BAC31331.1	
				NM_012028 NP_036158.	
GM3 synthase (α-2,3-	St3gal5	Mus musculus	2.4.99.9		
sialyltransferase) ST3Gal		9		-AAP65063.1	Q9CZ65.
v			1.0	AB018048 BAA33491.1	Q9QWF9
2000年第五十八	vertari			AB013302BAA76467.1	
				AK012961BAB2857.1.1 3¥,15003 CAA75235.1	
e a maria kan				NM:011375 NP:035505	1 3 3 3 3
N-acetylgalactosaminide	St6galnac6	Mus musculus	2.4.99		Q8CDC3
α-2,6-sialyltransferase	_			AB035174 BAA87036.1	
(ST6GaINAc VI)				AB035123 BAA95940.1	
				AK030648 BAC27064.1 NM_016973 NP_058669.	
M138L		Myxoma virus	n.d.	U46578 AAD000691	
		,	7	AF170726 AAE61323	计算程度 2.3.
			.*	NC_001132 AAE61326.1	
				AAF15026.1	
ar 2.2 aialultuanafaraan		Opportunatura		NP_051852 AJ585760 CAE51384.1	
α-2,3-sialyltransferase		Oncorhynchus	n.d.	MJ3037 DU CME3 1304.	•

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Protein	Organism	EC#	GenBank / GenPept	SwissProt PDB
(St3Gal-I)	mykiss			
α-2,6-sialyltrafisterase	Oncorhynchus	n.d.	AJ620649 CAF 0584871	
(Siat1)************************************	mykiss			1984
α-2,8-	Oncorhynchus	n.d.	AB094402 BAC77411.1	Q7T2X5
polysialyltransferase IV	mykiss			
(ST8Sia IV)				Activities are a section of the section
GalNAc α-2.6	Oncorhynchus	n.d.	AB097943 BAC775201	1980712X4
sialyltransferase	mykiss			
(RtST6GalNAc)	Oryctolagus	2.4.99	AF121967 AAF28871.1	Q9N257
α-2,3-sialyltransferase ST3Gal IV	cuniculus	2.4.55	AT 121907 AAF 2007 1.1	Q514237
OJ1217_F02.7	Oryza sativa	n.d.	AP004084 BAD07616:1	CONTRACTOR OF THE PROPERTY OF
	(japonica cultivar-			
	group)			
OSJNBa0043L24.2 or	Oryza sativa	n.d.	AL731626 CAD41185.1	
OSJNBb0002J11.9	(japonica cultivar-		AL662969 CAE04714.1	
	group)			and the second of the second
P0683f02.18 or	Oryza sativa	n.d.,	AP003289 BAB63715.1	
P0489B03.1	(japonica cultivar-		AP003794 BAB90552.1	
er 2.6 siehultzeneforene	group) : Oryzias latipes	: [4](T)	AJ646876 CAG26705.1	
α-2,6-sialyltransferase ST6GalNAc V (Siat7E)	Oryzias lalipes	n.d.	AJ040876 CAG28703.1	
(fragment)				
α-2,3-sialyltransferase	Pan troglodytes	n.d.	#AJ744803 CAG32839.1	
ST3Gal I (Siat4)			AT PROCESS OF THE PARTY OF THE	
α-2,3-sialyltransferase	Pan troglodytes	n.d.	AJ744804 CAG32840.1	
ST3Gal II (Siat5)				
α-2,3-sialyltransferase	Pan troglodytes	n.d.	AJ626819 CAF25177.1	
ST3Gal III (Siat6)	On a translant dan		A 1000004 CAE05400 4	
α-2,3-sialyltransferase	Pan troglodytes	n.d.	AJ626824 CAF25182.1	
ST3Gal IV (Siat4c) α-2,3-sialyltransferase	Pan troglodytes	n.d.	AJ744808 CAG32844.1	17 no.
ST3Gal VI (Siat10)	r an troglodytes			
α-2,6-sialyltransferase	Pan troglodytes	n.d.	AJ748740 CAG38615.1	
(Sia7A)				
α-2,6-sialyltransferase	Pan troglodytes 🐍	َيْ n.d.	AJ748741 CAG38616.1	Name of the last o
(Sia7B)				
α-2,6-sialyltransferase	Pan troglodytes	n.d.	AJ634454 CAG25676.1	
ST6GalNAc III (Siat7C) α-2,6-sialyltransferase	Pan troglodytes	n d hat	A)646870 CAG26699.1	A STATE OF THE PROPERTY OF THE
ST6GalNAc IV (Siat7D)	Tan irogiodytos		5.5	
(fragment)		y die		
α-2,6-sialyltransferase	Pan troglodytes	n.d.	AJ646875 CAG26704.1	
ST6GalNAc V (Siat7E)			The second secon	man a standard a service a service and a
M22 Sigistyltransterage	Panitroglodytes 🤛	sin'd	AJ646882 CAG26711.1	THE REAL PROPERTY.
ST6GalNAc V (Siat7F) (fragment)				
(tragment)	Pan troglodytes	2 4 00 8	AJ697658 CAG26896.1	Late See
α-2,8-sialyltransferase 8A (Siat8A)	r an irogiodytes	2.4.99.8	MUUT VUU VMU20 030. I	
α-2.8-sialvitransferase 8B	Pan trodlodytes	n.d*	AJ697659 CAG26897.1	"""说话"""""""""""""""""""""""""""""""""""
(Siat8B):	Service Control of the Control of th			
α-2,8-sialyltransferase	Pan troglodytes	n.d.	AJ697660 CAG26898.1	
8C (Siat8C)			r o de la composição de	
	Pan troglodytes	n.d.	A)697661 CAG26899.1	
8D (Siat8D)	0 - 4 4 - 4 - 4			A COMPANY OF S
α-2,8-sialyltransferase 8E	Pan troglodytes	n.d.	AJ697662 CAG26900.1	
(Siat8E) α-2,8-sialyltransferase 8F	Pan troglodytes	n d .3	AJ697663 CAG26901 1	5. 度为 建 理等。5. 4
(Siat8F)	, ran noglouytes		AJ697663 CAG26901.1	
β-galactosamide α-2,6-	Pan troglodytes	2.4.99.1	AJ627624 CAF29492.1	Commission was a server of the second of the
sialyltransferase I	<u> </u>			
(ST6Gal I; Siat1)	•			
β-galactosamide α-2,6-	Pan troglodytes	n.d.	AJ627625 CAF29493.1	
sialyltransferase II			for the	
(ST6Gal II)	•	-		
GM3 synthase ST3Gal V	Pan troglodytes	n.d.	AJ744807 CAG32843.1	

	FIGURE	111		
Protein	Organism	EC#	GenBank / GenPept	SwissProt PDB / 3D
(Siat9)	A CONTRACTOR OF THE STATE OF TH	11 - 12.475	NOTERAGEORE	and the first of the star of
S138	Rebbli (Ibioma: 4. Vlivs Kasza: 4.	n.d.	NC 001266 NP 052025	4
α-2,3-sialyltransferase	Rattus norvegicus	2.4.99.6	M97754 AAA42146.1	Q02734
ST3Gal III	THE PROPERTY OF THE PARTY.		NM_031697 NP_113885.	<mark>1</mark> spezi totototot urbeasin era
α-2,3-siajýltransferase ST3Gal:IV ₄ (Siat4c)	- Raffusinolvēģicus	n.d.	AJ626825 CAF251834	
α-2,3-sialyltransferase	Rattus norvegicus	n.d.	AJ626743 CAF25053.1	
ST3Gal VI	्रिवेttùs[fiolivegicus	2.4.99	X76988 CAA5429311	WE'TOWADDE IN SINK
	And And Andrews	2.4.55	1770 to 1770 t	
α-2,6-sialyltransferase	Rattus norvegicus		M18769 AAA41196.1	P13721
ST6Gal I α-2,6-siaiyi(ransferase)		Web days	M83143 AAB07233.1 J. A 634458 CAG25684.1	
α-2,6-sialyltransferase	Rattus norvegicus	n.d.	AJ634457 CAG25679.1	
ST6GalNAc II (Siat7B) α-2,6-sialyltransferase	Rattus nonedicus	2499		O64686
ST6GalNAc III		10.00	BC072501 AAH7250151	
			NM_019123 NR 061996	
α-2,6-sialyltransferase ST6GalNAc IV (Siat7D)	Rattus norvegicus	n.d.	AJ646871 CAG26700. 1	
(fragment)	Street, T. F. v. 1. St. (1891) 1.	Marian Carlo Cara	a mustan et ett to å og er entrække et katte er er er e	A Charles of the second of the Control of the
α-2,6-sialyltransferase ST6GalNAc V (Siat7E)	Rattus norvegicus	n.d	#AJ646872.CAG26701.1	
α-2,6-sialyltransferase	Rattus norvegicus	n.d.	AJ646881 CAG26710.1	in the state of the second of
ST6GalNAc VI (Siat7F)	· ·			
(fragment) α-2,8-sialyltransferase	Rattus norvedicus	2400	U53883 AAC27541:1	50P70554
(GD3 synthase) ST8Sia I		HE COMME	A D45255 BAA08213.1	P97713
α-2,8-sialyltransferase	Rattus norvegicus	n.d.	AJ699422 CAG27884.1	
(SIAT8E) α-2,8-sialyltransferase	Rattus norvegicus	n.d.	AJ699423 CAG27885.1	
(SIAT8F)				
α-2,8-sialyltransferase ST8Sia II	Rattus norvegicus	2.4.99	L13445 AAA42147.1 NM_057156 NP_476497.	
α-2,8-sialyltransferase	Rättus norvegicus	2.4.99	3055938 AAB50061.1	P97877
ST8Sia III	Rattus norvegicus	2.4.99	NME013029 NRE037161. U90215 AAB49989.1	
α-2,8-sialyltransferase ST8Sia IV	Rattus norvegicus	2.4.55	U90213 AAD49909.1	000303
β-galactosamide α-2,6-	Rattus norvegicus	ું≱n.d.∵	AJ627626 CAF29494.1	
sialyltransferase III	27			
(ST6Gal II) GM3 synthase ST3Gal V	Rattus norvegicus	n.d.	AB018049 BAA33492.1	O88830
	Commission of the State of the	- PERSONAL PROPERTY CONTRACTOR (CONTRACTOR)	NM_031337 NP_112627.	
sialylfransferase ST3Gal- I (Siai4A)	Rattus norvēgicus		AU748840 CAG44449:	
α-2,3-sialyltransferase	Silurana tropicalis		AJ585763 CAE51387.1	ka jednaka (1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
(St3Gal-II) α-2,6-sialyltransferase	் Silurana tropicalis	AMOUNT LIVERSON	AV620650 CAF05849.1	(14)卷键:针 中理的对称可能力
(Siat7b)	- Siluraria tropicalis	11:04	7,3020030 CATO3049.1	
α-2,6-sialyltransferase	Strongylocentrotus	s n.d.	AJ699425 CAG27887.1	
(St6galnac) α-2,3-siglyltransferase	purpuratus	A TANK	Α 1585765 CAF51389:1	CONTRACTOR OF THE
(ST3GAL-III)	10000000000000000000000000000000000000	The same	AU585765 CAE51389.1	
α -2,3-sialyltransferase	Sus scrofa	n.d.	AJ584674 CAE48299.1	
(ST3GAL-IV) α-2,3-sialy[transferase.	Sus scrofa	2.4.99:4	M97753 AAA31125.1	Q0274505
ST3Gai l	Control of the Contro	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	《四天》
α-2,6-sialyltransferase (fragment) ST6Gal I	Sus scrofa	2.4.99.1	AF136746 AAD33059.1	
β-dalactosamide α-2.6-	Sūs scrofa	n.d.	AJ620948 CAF06585.2	
sialyltransferase			AJ620948 CAF06585.2	
(ST6GalNAc-V) sialyltransferase	sus scrofa	n.d.	AF041031 AAC15633.1	Manager St. St. Co. St. Co.
(fragment) ST6Gal I		.,,		

FIGURE 11J

	FIGURE	IJJ		
Protein	Organism	EC#	GenBank / GenPept	SwissProt PDB
ST6GAENAC-V	Sus scrofa	n.d.	AJ620948 CAF065854	
	Takifugu rubripes	n.d.	AJ744805 CAG32841.1	
α-2,3-sialyltransferase (Siat5-r)	rakiiaga rabiipes	11.0.	70744003 CAG32841.1	
α-2,3 sialyltransferase	Takifugu rubripes	n.d.	AJ626816 CAF2517451	PROPERTY OF THE PARTY.
ST3Ga[] (Siat4)				
α-2,3-sialyltransferase	Takifugu rubripes	n.d.	AJ626817 CAF25175.1	MARIO POLITICA DE APOSTO DE PEROPE
ST3Gal II (Siat5)				
(fragment)				
α-2,3-sialyltransferáse	Täkifugu rübripes	n.d.	AJ626818 CAF251761	
ST3Gal III (Siat6)				
α-2,6-sialyltransferase	Takifugu rubripes	n.d.	AJ744800 CAG32836.1	
ST6Gal I (Siat1)	Phonocological Strength States for the large on the first for	11 (15.1 1 1	the second processing of the second processing and the second	Terment But to take the managers of a confluence
α-2(6-sialyltransferase	₹ Täkifugu rubripes		AJ634460 CAG25681	
ST6GalNAc II (Siat7B)			Tell All All All All All All All All All	
α-2,6-sialyltransferase	Takifugu rubripes	n.d.	AJ634461 CAG25682.1	
ST6GalNAc II B (Siat7B-				
related) α-2,6-sialyltransferase	/ Tabilian allegan	د. د. اسمار د	AJ634456 CAG25678.1	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
ST6GalNAc III (Siat7C)	rakilugu lubilibes.	*II. 	24 40034430 CAG230 0.1	Land Control of States and the Control of the Contr
(fragment)	A STATE OF THE STA			
α-2,6-sialyltransferase	Takifugu rubripes	2.4.99.3	Y17466 CAB44338.1	Q9W6U6
ST6GalNAc IV (siat7D)	g		AJ646869 CAG26698.1	
(fragment)				
α-2.6-sjalyltransferase	Takifugu rubripes	7. n.ď ⊃y	AJ646873 CAG26702.1	
ST6GalNAc V (Siat7E)		4.		
(fragment)		4.4.2	国工程的 ,但是是1000年	
α-2,6-sialyltransferase	Takifugu rubripes	n.d.	AJ646880 CAG26709.1	
ST6GalNAc VI (Siat7F)				
(fragment)	Total Control Control	Secretary and the second	AJ715534 CAG29373.1	Called the world and the con-
α-2,8-sialyltransferase , ST8Sia I (Siat 8A),	rakiiugu rubiipes	11.0	24AJ7110004 CAG23373.1	
(fragment)				
α-2,8-sialyltransferase	Takifugu rubripes	n.d.	AJ715538 CAG29377.1	er ings pro-
ST8Sia II (Siat 8B)				
(fragment)				0
α-2,8-sialyltransferase	Takifugu rubripes:	n.d.	AJ715541 CAG29380.1	
ST8Sia III (Siat 8C)				
(fragment)	。	P. 18.30		A SECTION OF SECTION O
α-2,8-sialyltransferase	Takifugu rubripes	n.d.	AJ715542 CAG29381.1	
ST8Sia IIIr (Siat 8Cr) α-2,8-sialyltransferase	Takifugu rubripės	n.d.	AJ715547 CAG29386.1	product Associated to
ST8Sia V (Siat 8E)	Takilugu Tupilpes	, II. u.	737 13347 CAG23300.	
(fragment)	and solven to the solven to	A 343		
α-2,8-sialyltransferase	Takifugu rubripes	n.d.	AJ715549 CAG29388.1	er engrisserski gantari ret et
ST8Sia VI (Siat 8F)	· · · · · · · · · · · · · · · · · · ·			
(fragment)				
α-2,8-sialyltranisferase		n.d.	, AJZ15550 CAG29389.1	ા ભાગવામાં હ્યું હતા છે. આ મુખ્ય મુખ્ય જાણાવ્યા છે.
ST8Sia VIr (Siat 8Fr)	社会是一个人的			
α-2,3-sialyltransferase	Tetraodon	n.d.	AJ744806 CAG32842.1	
(Siat5-r)	nigroviridis	established (MA)		n a militario de la Salada.
α-233-sialyltransferase	Jetraogon Trans	n.day	AJ744802 CAG32838.1	
	r ≠nigrovindis ≠0++		AJ626822 CAF25180.1	1969年1969年
α-2,3-sialyltransferase ST3Gal III (Siat6)	nigroviridis	n.d.	AJ020022 CAF 23 180.1	
α-2,6-sialyltransferase	Tetraodon 3	nd 2	AJ634462 CAG25683.1	E Marie Con
	inigrovindis : 15			
α-2,6-sialyltransferase	Tetraodon	n.d.	AJ646879 CAG26708.1	The state of the s
ST6GalNAc V (Siat7E)	nigroviridis	•		
(fragment)	=			
α-2,8-sialyltransferase	<u>T</u> etraodon	n.d. ৣ ::	AJ715536 CAG29375.1	
ST8Sia ((Siat 8A)	nigroviridis	7.0		
(fragment)				AMERICAN !
α-2,8-sialyltransferase	Tetraodon	n.d.	AJ715537 CAG29376.1	
ST8Sia II (Siat 8B)	nigroviridis			
(fragment) α-2,8-sialyltransferase	Tetraodon	n.d.	AJ715539 CAG29378.1	14.3
w-2,0-sidiyilidiisicidse	TOTTOGGG	n.u.	707 10005 ONG20070.1	•

FIGURE 11K

FIGURE 11K					
Protein	Organism	EC#	GenBank / GenPe	pt SwissProt PDB	
ST8Sia(III (Stat 80))	nigrovindis 77				
(fragment)					
α-2,8-sialyltransferase ST8Sia IIIr (Siat 8Cr)	Tetraodon nigroviridis	n.d.	AJ715540 CAG2937	79.1	
(fragment)	Ingi o vii laid				
α-2,8-sialyltransferase	Tetraodon 🔭	n.d.	AJ715548 CAG2938	700000000000000000000000000000000000000	
ST8SiaV/(Siat/8E) (fragment)// Eliz:	nigroviridis				
α-2,3-sialyltransferase	Xenopus laevis	n.d.	AJ585762 CAE5138	6.1	
(St3Gal-II)	-	11.4.	70303702 07E313 0	0.1	
α-2,3-sialyltransferase	Xenopus laevis	n.d.	AJ585766 CAE5139		
(St3Gal-VI)	Vananua (aavia	- 13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A 15057C4 OA 55400		
α-2,3-sialyltransferase St3Gal-III (Siat6)	Xenopus laevis	n.d.	AJ585764 CAE5138 AJ626823 CAF2518		
α-2,8-		2.4.99	AB007468 BAA3261	771931O93234	
polysialyltransferase	7.77		48 8 - 4 TO SEE SEE		
α-2,8-sialyltransferase ST8Siα-I (Siat8A;GD3	Xenopus laevis	n.d.	AY272056 AAQ1616 AY272057 AAQ1616		
synthase)			AJ704562 CAG2869		
Unknown (protein for	Xenopus laevis	n.d.	BC068760 AAH6876		
MGC:81265)	V	die			
α-2,3-sialyltransferase (3Gal-VI)	Xenopus tropicalis	n.d.	AJ626744 CAF2505	4.1	
α-2,3-sialyltransferase	Xenopus tropicalis	n.d.	AJ622908 CAF 2205	8.1	
(Siat4c)					
α-2,6-sialyltransferase ST6GalNAc V (Siat7E)	Xenopus tropicalis	n.d.	AJ646878 CAG2670	7.1	
(fragment)					
α-2,8-sialyltransferase	Xenopus tropicalis	n.d,	AJ715544 CAG2938	3.110	
ST8Sia III (Siat 8C)					
(fragment). β-galactosamide α-2,6-	Xenopus tropicalis	n.d.	AJ627628 CAF2949	6.4	
sialyltransferase II	Nonopus nopicans	m.u.	A0021020 OAI 2545	U. I	
(ST6Gal II)					
sialytransferase St8Sial	Xenopus tropicalis	n.d.	AY652775 AAT6704	2.	
poly-α-2,8-sialosyl sialyltransferase	Escherichia coli K1	7. 10 2. 2	.4 M76370 AA	24213.1 Q57269 ···	
(NeuS)			X60598.CA	A43053.1	
polysialyltransferase	Escherichia coli K9	2 2	2.4 M88479 AA	A24215.1 Q47404	
α-2,8 polysialyltransferase SiaD	Nejsseria meningiti	dis 💮 🤌	.4:-:- M95053'AX	120478.1 Q51281.1	
「東」 第2章 (1) 1 (1) (1) (1) (1) (1) (1) (1) (1) (B1940		X78068.CA/		
SynE .	Neisseria meningiti	dis	n.d. U75650 AAI	B53842.1 O06435	
polysialyltransferase (Sia®)(fragment)	FAM18	die ti	n.d & WAY2341192 AA	7852904 - 765 Miles	
polysially mainsterase (Siab) (maying mi)	M10191 5				
SiaD (fragment)	Neisseria meningiti	dis i	n.d. AY281046 AAI	P34769.1	
Sian (fragment) (%) (1) (%)	M209 Neisseria meningitid	dia ' · · ·	a anggarayan	2476745	
SiaD (fragment)	M3045	ois	n.d. I. FAY281044AAI		
polysialyltransferase (SiaD)(fragment)	Neisseria meningiti	dis i	n.d. AY234191 AA		
Only Discharge State Control of the	M3315	Tan division	- 315- 1846 (1846) (1846)	Committee of the Commit	
SiaD (fragment)	, iveissena meningitid M3515	ais i	n.d.];;;:AY281047;AAI	234770.1	
polysialyltransferase (SiaD)(fragment)	Neisseria meningiti	dis i	n.d. AY234190 AA	085288.1	
	M4211				
SiaD (fragment)	Néisseria meningitio	dis i	n.d. AY281048 AAI	347711	
polysialyltransferase (SiaD)(fragment)	∵ M4642 Neisseria meningitio	dis .	n.d. AY234193 AA	085291.1	
	M5177				
SiaD	Neisseria meningitio	dis í r	n.d. AY281043 AAF	34766 1	
SiaD (fragment)	`M5178` Neisseria meningitir	die -		234768 1	
Ciab (nagnielly	Neisseria meningition M980	uro l	n.d. AY281045 AAF	- J-71 UQ. 1	
NMB0067	Neisseria meningitio	dis r	n.d. NC_003112 NP_	2731313	
	MC58	-		LEADER AND STREET	

FIGURE 11L

FIGURE 11L					
Protein	Organism EC#	GenBank / GenPept	SwissProt PDB / 3D		
CRF2	Aeromonas n.d. punctala Sch3 Haemophilus n.d. influenzae A2	AF126256 AAS6662451 M94855 AAA24979.1			
HI1699 α-2,3-sialyltransferase	Haemophilus n.d.	U32842 AAC 2334515 NC 1000907 NP 43984111 U60664 AAC 44539.1 AAE 67205.1	©48211312		
α-2,3-sialyltransferase α-2,3-sialyltransferase	Neisseria 2.4 9914 Meningilidis 2 M26E NRCC A010 Neisseria 2.4.99.4 meningilidis 406Y, NRCC 4030	U60662 AAC4454422 U60661 AAC44543.1			
α-2,3-sialyltransferase (NMB0922) NMA1118	meningitidis 5	U60660 AAC 44541 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
PM0508 WaaH		AE006086 AAK02592.1 NC_002663 NP_245445.1 AF519787 AAM82550.1	Q9CNC4 Q8KS93		
WaaH	SARB25 Salmonella inid enterica SARB3 inid Salmonella n.d. enterica	AF519788 AAM82551.1 AF519789 AAM82552.1	Q8KS92		
WaaH WaaH	enterica SARB53 Salmonella n.d. enterica	AF519791 AAM82553.1	Q8KS91		
WaaH WaaH	Salmonella n.d.	AF519792 AAM82555.1	Q8KS90		
WaaH (fragment)	Salmonella enterica SARC10V Salmonella n.d. enterica SARC12	AF5197/9 AAM88840.1 AF519781 AAM88842.1	Q8KS99***********************************		
WaaH (fragment) WaaH (fragment)	Salmonella india enterica SARC13I Salmonella n.d. enterica	AF519782 AAM88843.1 AF519783 AAM88844.1	Q8KS98***********************************		
WaaH WaaH	SARC14 Salmonella n'd Senterica	AF519784 AAM88845.1 AF519785 AAM88846.1	Q8KS96 Q8KS95		

FIGURE 11M

FIGURE 11M					
Protein	Organism	EC#	GenBank / GenPept	SwissProt PDB / 3D	
WaaH (fragment)	Salmonella	n.d.	AF519772 AAM8883441		
	enterica SARC3I				
WaaH (fragment)	Salmonella	n.d.	AF519773 AAM88835.1	Q8KSA3	
· · · · · · · · · · · · · · · · · · ·	enterica			Q0110710	
And the same terms.	SARC4I		. U. Alba and a Department of the large and approximation	werene transmed and	
WaaH	Salmonella enterica	n.d.	AF519774 AAM88836 1		
	SARC5IIa				
WaaH	Salmonella	n.d.	AF519775 AAM88837.1	Q8KSA2	
	enterica SARC6IIa				
WaaH	SAACOIIa Salmonella	n.d.	AF519777.AAM88838	O8KSA1	
	enterica		· · · · · · · · · · · · · · · · · · ·		
144-11	SARC8		COLOR CHARLES	化二氯化二氯化氯化氯化二	
WaaH	Salmonella enterica	n.d.	AF519778 AAM88839.1	Q8KSA0	
	SARC9V				
UDP-glucose : α-1,2-	Salmonella:	2.4.1	AF511116 AAM48166.1		
glucosyltransferase (WaaH)	enterica subsi arizonae SAR				
	5				
bifunctional x-2,3/-2,8-	Campylobacter jejuni ATCC 43449	n.d.	AF401529 AAL06004.1	Q93CZ5	
sialyltransferase (Cst-II) Cst	Campylobacter jejuni		AF305571 AAL09368.1	A 1	
	81-176				
α-2,3-sialyltransferase (Cst-	Campylobacter jejuni	2.4.99	AY044156 AAK73183.1		
III) α-2,3-sialyltransferase (Cst-	ATCC 43429 Campylobacter jejuni	2499-	AF400047 AAK85419.1		
III)	ATCC 43430				
α-2,3-sialyltransferase (Cst-	Campylobacter jejuni.	2.4.99	AF215659 AAG43979.1 (
II) α-2,3/8-sialyltransferase	ATCC 43432 Sample Sampylobacter jejuni	n.d.		293MQ0	
(Cstill)	ATCC 43438	II.U.	AF400040 MAN 9 17 23.1	392IAICIO	
α-2,3-sialyltransferase cst-II	Campylobácter jejuni	2.4.99	AF167344 AAF34137.1		
α-2,3-sialyltransferase (Cst-	ATCC 43446	2.4.99	AF401528 AAL05990.1	293D05	
	ATCC 43456	2.4.99	AF401526 AAL05330.1	7a2D02	
α -2,3-/ α -2,8-sialyltransferase	Campylobacter jejuni			Q938X6	
(Cstll)	ATCC.43460				
α-2,3/8-sialyltransferase (Cst-II)	Campylobacter jejuni ATCC 700297	n.d.	AF216647 AAL36462.1		
ORF	«Gampylobacter)ejunij 🗓		AY422197.AAR82875.1 🚑	第 次是 有限的	
	GB11 A Car Tox				
α-2,3-sialyltransferase cstlll	Campylobacter jejuni MSC57360	2.4.99	AF195055 AAG29922.1		
α-2,3-sialyltransferase cstlll	Campylobacter jejuni	2.4.99.	ALM 39077 CAB73395.1 (1)	29PNF4	
Cj1140	NCTC 11.168		C±002163 NP 282288.1		
α -2,3/ α -2,8-sialyltransferase II (cstII)	Campylobacter jejuni O:10	_ n.d.	- AAO96669.1 AX934427 CAF04167.1	-	
α-2,3/α-2,8-sialyltransferase					
II (CstII) 表 微微镜像的 计表示	(O:19 ·) / / / / / / / / / / / / / / / / / /	. * * * * * * * * * * * * * * * * * * *	的一种,一种一种一种一种一种一种一种一种一种一种		
α-2,3/α-2,8-sialyltransferase	Campylobacter jejuni O:36	n.d.	AX934436 CAF04171.1		
α -2,3/ α -2,8-sialyltransferase	Campylobacter jejuni	n.d. " -	AX934434 CAF04170.1	e de la companya de l	
II (CstII)	O:4		Taraba a Maria de Caraba d		
α-2,3/α-2,8-sialyltransferase	Campylobacter jejuni O:41	n.d.	- AAO96670.1 - AAT17967.1		
n (Ostii)	0.71		AX934429 CAF04168.1		
α-2;3-sialyltramsferase cst-l	Campylobacter jejuni	2.4.99.	AE130466 AAF13495.1	98GF1	
bifunctional α-2,3/-2,8-	OH4384 A		AF130984 AAF31771.1		
sialyltransferase (Cst-II)	Campylobacter jejuni OH4384		AX934425 CAF04166.1	1RO7 C 1RO8 A	

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FIGURE TIN					
Protein	Organism	EC#	GenBank / GenPept	SwissProt PDB / 3D	
HI0352 (fragment)	Haemophilus influenzae Rd		U32720 AAC220 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
PM1174	Pasteurella multocida PM70	n.d. A	E006157 AAK03258.1 C	19CLP3	
Sequence 10 from patent US 6503744	Unknown.	n.d.	AAO966727		
Sequence 10 from patent US 6699705	Unknown.	n.d.	-AAT17969.1	September 1997 - Anni Grant Sep	
Sequence 12 from patent US 6699705	Unknown.	n.d.	AAT17970.1		
Sequence 2 from patent US 6709834	Unknown.	n.d.	-AAT23232.1	ا مرد درون ا	
Sequence 3 from patent US 6503744	Unknown. Unknown.	n.d. n.d.	-AAO96668.1 -AAT17965.1		
Sequence 3 from patent US 6699705 Sequence 34 from patent US			-AA117303.1	inger in the contract of the c	
6503744 Sequence 35 from patent US	Unknown.	n.d. n.d.	「「「「新り」」が、「「」「「「A」が発展されます。 こ	ersyk.	
6503744 (fragment) Sequence 48 from patent US	Unknown.	n.d. 🎎	- AAS36262.1 - AAT17988.1		
6699705 Sequence 5 from patent US	Unknown.	n.d.	-AAT17966.1	Maria Maria	
6699705 Sequence 9 from patent US 6503744	Unknown.	n.d.	-AAO96671.1		

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